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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/37106

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A47J 31/00			
US CL : 99/305, 283			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S.: 99/305, 283, 282, 281, 280			
and the control of th			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
NONE			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
EAST			
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C. DOCUMENTS CONSIDERED TO BE RELEVANT			
		propriate of the relevant passages	Relevant to claim No.
Category *	Citation of document, with indication, where appropriate, of the relevant passages US 6,003,435 A (PATEL) 21 December 1999, see entire document.		1, 3, 9, 11, 12
X	US 0,003,433 A (FATEL) 21 December 1999, See chare document.		
Y		İ	4, 5, 8
	1.		
Y	US 6,612,224 A (MERCIER et al) 02 September 200	03, see entire document.	4, 5, 8
A	A US 5,647,055 A (KNEPLER) 08 July 1997.		
A	US 6,439,105 A (FORD) 27 August 2002.		
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Further documents are listed in the continuation of Box C. See patent family annex.			
	pecial categories of cited documents:	date and not in conflict with the applic	ation but cited to understand the
	defining the general state of the art which is not considered to be	principle or theory underlying the inve	ention
1	ılar relevance	"X" document of particular relevance; the	
-B" earlier ap	plication or patent published on or after the international filing date	considered novel or cannot be consider when the document is taken alone	red to involve an inventive step
"L" document which may throw doubts on priority claim(s) or which is cited to			
establish	the publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive ste	claimed invention cannot be
specified)		combined with one or more other such	documents, such combination
"O" document referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in th	
"P" document	t published prior to the international filing date but later than the	"&" document member of the same patent	family
priority date claimed			
Date of the a	ctual completion of the international search	Date of mailing of the international sear	ch report
		Date of mailing of the international search report 23 FEB 2005	
07 February 2005 (07.02.2005) Name and mailing address of the ISA/US		Authorized officer	
Mail Stop PCT, Attn: ISA/US		I I DOT ITE	
Commissioner for Patents		Reginald L. Alexander	
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. 571-272-0987	Fan
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